25X1 Approved For Release 2007/09/12: CIA-RDP80-00810A005000440009-2 CLASSIFICATION Charabinitian CENTRAL INTELLIGENCE AGENCY REPORT INFORMATION REPORT CD NO. DOON 12 Basi Geinery DATE DISTR. 24 November 1944 SUBJEC Miscellineous Information on Scientific-NO OF PAGES 16 Technical Bureau No. 3 (MTB-3) of SAG Mabel PLACE NO OF ENCLS 25X1 **ACQUIRES** LISTED BELOW DATE SIF SUPPLEMENT TO INFO REPORT NO TID SOCIODAR CONTRUPS EXPORTANTO AS PACTINO THE NATIONAL DEFENDA OF THE PARTY OTATES, WITHIN THE HEARING OF THEE YES, SECTIONS FOR AUTOCOMMENT OF THE CONCORD AND ARREST OF THE MANAGEMENT OF THE OTHER OF THE CONTROL TO OR SECUED OF THE NORMAL FROM SECUED OF A PROPRIETED SECUED TILL REPORDING TO ON THE NORM IS PROPRIETED. 25X1 THIS IS UNEVALUATED INFORMATION

- Scientific Technical Burson No. 3 (WTB-3) of the SAG Kabel was located in the former administration building of the Knorr-Branse AG, 9-17 News Bohmhof Strasse, Berlin 0 112. WTB-3 was a development plant which, in September 1953, had a work force of about 500; 50 to 55 percent were engineers and technicians, 35 percent were skilled laborers, and the remainder administrative personnel. Work was done in one shift. In order to fill the production quota of highest pricrity requests, the plant installations and the work force were to be enlarged. On 20 and 30 September 1953, one thard of the personnel worked on an inventory for conferences concerning the conversion of WTB-3 to a German-controlled enterprise.
- 2. The research orders, referred to as "Themes", were numbered: those for the USSE, which included about 90 percent of the total, were indicated by the letter "F"; projects for the East German government were indeutified by the letter "A" and included most of the remaining 10 percent. The time schedule for most projects, usually 1 to 2 years, was much too short. The projects were handled according to the following pattern:
  - a. Examination of the technical terms
  - b. Collection of the required literature c. Planning and calculation

  - d. Construction of the experimental setup and preliminary experiments
  - e. Preparation of a preliminary plan to be approved by the "customer"
  - f. Construction of a laboratory rodal, assembly and testing of the combined functioning of the individual structural parts
  - g. Design of the instrument. Before the actual design was begun, final switching digrams had to be prepared with all the parts and material available.
  - h. Construction of a model. Individual parts were frequently creduced by other East German firms.
  - i. Testing and experiments; balancing
  - j. Documentation in German and Russian, including test records, photographs of the device and its component parts, a technical description, and all designing records

	CLASSIFICATION	CONFIDENTIAL	4	
STORE IN NOV	WELL MOBILE	DISTRIBUTION	GD2 E	25X
AN TOR	FSI FSI			12
		and the second s	The second secon	

3, 10, <b>k</b> a1. <b>k</b> a2.	Testing and experiments, balancing.  Desirentation in German and Russian to include the records, produgraphs of the instrument and his essential a technical description and all designing records.  Acceptance by Scales angineers, generally in divilian alot sometimes in Air Force or News uniforms, who arrived from Consciounily the Source Cambral Administration, USIG, or Main Administration of the SAG Kabel accepted the product Shipping in seasonably packing. Trucks with Soviet guards the products away. After the acceptance all sketches of instruments and to be turned in.	parts, thes but Mos row, the
et d  continue  of ti  prodi  f no  prap  of ti  the  comp.  poor  in in  the  credi  cleast  closup  uas  uas	aformation was obtained on the origin of the work order, to estimation and the purpose of the constructed instrument, and with the custemer was naturalized by correspondence only or twice a year, Sould civilians who had little known the technical problems intrivad and were purportly into action quotes visibed WTB-3 to check up on important or thing status appart, the so-celled leafilipter, was used on each project to show one status as activities and the funds saill available. The Soviets accepted by extending cradits in accordance with the status of extending cradits in accordance with the status of the funds saill available. The Soviets accepted by extending cradits in accordance with the status of each of interest of interest of about 27 projects handled in 1952, only nin eachy unachediled. Difficulties effecting the activities planning, limited time, lack of qualified designers ofte madequate basic records, and lottlenesks in the material status model was behind schedule, the Soviets refused to extend the content of the sample of th	The y. About redge sted to opjects Thenced is of the vere included in resulting apply end to 3,000,000 be ed to deficit
Gepte suill model Funku for T AEU a The m compu- of sp	ugh new desting and measuring instruments had been procured been 1953, one quality and quantity of the plant equipment inadequate. The available instruments included old and not purchased	t was sw from lant amens, elf. iy
Atmy used a.	the of a basic order not to use western material and form equitions still available at WTS-7, western produces were second on the Was include Bosch-byte netal paper and electrolytic condensers. The classification is produced and temperatures are the temperatures.	ed: Leotrolytsc

25X1

CONFIDE TIAL

Ū	CHFIDENTIAL	
	-3~	

25X1

25X1

- b. Philips OA 50-type germanium ducdes. The measured values obtained by the silicon ducdes produced by the HF Flant differed widely and were not constant enough, while the germanium dicdes produced by the Drahewid Plant in relicou which could have been used sometimes were available only in small series of two to five units.
- c. RCA 5 D 21 type tubes were because the some type of tubes produced by the HF plant were entirely unsatisfactory.
- d. Lean hydrogen resistances of the Osram Firm.
- e. Wigh frequency iron cores and turning condensers of former German Army stocks were occasionally remodeled and doclared an East German product before they were used.
- T. Delivery plants woulding for WTB-3 included the Karl Weiss Firm, a private enterprise against in Greiz, Thuringia, producing hygrometers and related instruments; Str. Dunguess & Kelosche Firm in Leipzig producing transformers, the Samesa Firm for special comerces and the VEI Constant for Pintsch type constant cognishes.
- 3. Percontine catabilishment, of a cader group of politic lip reliable persons, the Long of General Administration judged the German personnel only according to their technical qualifications, efficiency and familiarms of the production quote and disregarded their political activations and party membership. The order group was established as a result of the 17 June 1953 where
- The High Prequency Department of MTB-3 directed high and low Inequancy instruments and the Department of Mersuring Techniques developed electromechanical measuring and reasing instruments for meromutical, naval, metaporthogical, as ignificant and electromedical purposes. Control and testing instruments for metaplical plants, gas works and power plants and for material scalepic were developed by the less important Department for Control Techniques. These instruments were to be used almost exclusively in Salet Collary. The mether independent Motallurgical Department of WTG-3 was considered to be the only melting plant for precious metals in East Collary, Among other materials, planthum, gold, silver, chromium were publised under crocessed there.
- 16. Project 58 h involving the development of a measuring instrument for field strength compensate was endered in 1952. The unit was to measure simulianeously and separately the vertical and horisontal components of an electric field. The high frequency voltage induced by means of a loop antenne was measured by comparison to the voltage produced by a calibrating oscillator. This system was based on a 1935 Philips gps 15314 strangel maser of enich photostat copies were available at WIB-3. With its two superhosenolyse nevelvers covering a frequency range of 1 to 27 magracycles, the instrument was designed for the reception of amplitude and frequency modulated transmissions as well us for eitent and sound wedwared telegraphic transmissions. It was rated as an infermediate frequency of A73 Edilocycles and a band width of 5 kelocycles. The requested measuring range reached from 1 microvolt to 100 milliavolte. A sensitivity of 1 microvolt was nover achieved, however, because wickground noises of the CSF & AC 7 type times occurred at 5 microvelta. The Dautsches Amt fuer Masa und Gewicht (German Institute of Dimension er. Weight) informed WW:-) that other Mast Gerran Institutes and also railed to , easywe precisely 1 microvolt at a frequency of 30 megacy: Los. It was a equested that the unit be portable, vibration proof. operational at a temperature range of 60 contigrates, and with mains and become gover supply. The Soviets had ordered one unit with all records and a saw of space whose; they specified that only parts made in Mast Cormany ca used. The enemy of members on the project exceeded the 100,000 eartmarks looks by some 20 to 30 percent From lovember 1952 to January 1953 the in Armer's was companies on the Karl Webse Firm in At was the epich in July 1983. In September 1983, horsever, Greizy the measuring instrument the small of MTB-3, because a minimum they າຍລັດຄວາມເລື້າສື່, ຈີນ, ລົບໜ້ອນຂໍ້ທ້ອຍຄ່ອນປຸດທະນັກຂໍ້ມີ ຄວາມສະມົນອຣິດຫລື້ອອະດາຊັ້ນອະ ກ່ຽວການ ແມ່ນຄອນ ແລະກິດກ່ານປົ່ວແລ້ວ ຄອນໄດ້ພັດສະນະຕອນ

NOTE: VEB Gaselan is the former fally Fartech concern.

25X1

## CONFIDENTIAL

- 11. Project 53 5 K. Request No 500 13, covered the development of a recurding instrument for irregularities of the ingremediate frequency at the outlet of radio receivers. The unit was laid out for an intermediate frequency range of 30 kilocycles so 1.5 megacycles. Difficulties were involved, particularily with the development of the high frequency testing generator for 30 kilocycles to 30 megacycles, since the output woltage, measured at a 70 ohm resistance, had to be adjustable in fixed steps at a range from ! microvolt to 10 volts. The potentionater was based on an old calibrating circuit. The calibrating circuits were to be Sictans moninductive and to have certain values. Since the special manufacturing of those parts by the Bralewid Plant required several months, the resistances had not all been received by September 1953. The generator designed for a sine modulation up to 100 kilocycles and for an impulse nodulation of 10 tycles to 10 kilosycles had a natural sine modulation of 800 cycles and a degree of modulation of 30 percent. An impulse generator produced rectangular pulses at a sequence of 10 cycles to 10 kilocycles and of adjustable duration. The values obtained were automatically recorded on linear and logarithmically soaled recorders or, by means of special camera at various exposure speeds, on motion gieture film. The screen of a two-beam oscillograph tube was photographed with a second two-beam tube serving as visual control unit. In order to finance another project for which the funds had been exceeded, the original budget of 1.200.000 eastmarks was reduced to 800,000 eastmarks. Two units, each with five sets of spare cubes, and all basic records, were scheduled to be delivered by 31 March 1954. The instrument was to be mounted on a frame and was designed for stationary operation. The same type of essembly was also used for other large instruments at
- 12. In early 1953, the plant hired about 12 persons sho had been repatriated from the USSR. They received a monthly salary of about 1,800 Eastmarks which was much more than the old engineers of the plant were paid.

Compant. For table of organization and a list of personnel as prepared on the information obtained from both sources, see Annex I. for a list of the various ections and the mashinery available at a to 17 News Bahmhofstrasse, see Annex 2.

2. Samment. For a 12st of projects headled by WTB-3, see Annex 3.

3. Comment. Fhysikgl.techn.lng. Buero und Werkstastuch lng. Karl Weiss, Greiz. Thuringia.

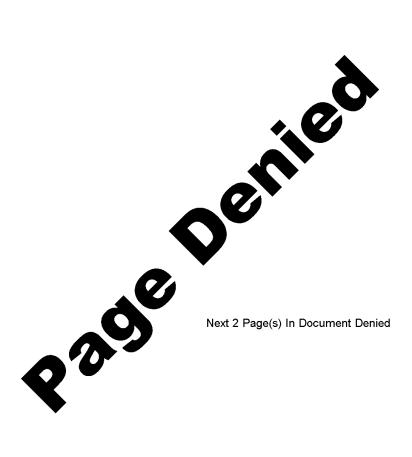
4. Comment. VEB Werk füer Bauelemente der Nachrichtentechnik "Carl von Ossietzky", Teltow.

25X1

25X1

25X1

COTFIDURIAL



COMPIDENTIAL

Annex	3		
		1	

-- 9 ---

E. Salar, as of September 1953

25X1

- 1. 18-bit according stations for ionosphere measurements designed in two versions. Since the outdoor experiments with two laboratory models mounted on two special trucks conducted in the area north of Barlin are to the Ballic Sea, had not scarted before September 1953, the target date of 31 December 1953 was probably not met.
- 2 Merrownsector DF unit, developed by the High Frequency Department was completed on schedule in 1953.
- 3 derivities in the decimeter field conducted by the High Frequency Department.
- 4. Flow melar, developed by the Department for Measuring Techniques.
- 5. Seestral analysers, hardled by the Department for Measuring Techniques and the High Frequency Department.
- 6. <u>Sincle invalues illigraph</u>, developed by the HF Department was completed on schedule in 1950.
- Field strength assemble devices for all frequency ranges, developed by the HF Department.
- 8. Measuring equipment to measure and record atmospherics, developed by the High Frequency and the low Frequency Department.
- 9. <u>Ultrasonic delay line</u>, still being deweloped by the Low Frequency Department.
- 10. <u>Gitrasoni: measuring instrument</u> to check welded seams. The instrument was completed in 1952.
- 17. Sould depth finder for depth of 11,000 meters. Although the device had met the requirements during the tests, it was still being improved in September 1953. Pocher, the designer of the instrument, was nonorably mentioned by the Soviets and awarded a bonus.
- 12. Remodeling of a fransmission level set for radio monitoring. The unit was completed in 1962 and was to be used for the East German broadcast.
- Monitorias set to inchest broadcasting stations regarding the degree of modulation, divergences from the carrier frequency, modulation and intensity. The warget date had been 1952, but the set was not completed before the fell of 1953.
- 10 Againtent, to edjust and regulate watches and pocket watches. The project was handled by the High Frequency Department and completed in 1952. Small series of about 10 units were produced for the Glashuetto Fire and by the This: Fire in Rubbs, thurings.
- 15. Project 56 He Measuring instrument for field strength components
- Project And N. Order 500 13 a recorder for irregularities of the inversed and income and the outlet of recio transmitters

**化价格分配的价值** 

